MET NOMA AND SMALL CELL CARCINOMA Inv. (s): Malaya CHATTERJEE, et al.

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6509016

Figure 1

, **J**

M K L P V R L L V L M F W I P A ATG AAG TTG CCT GTT AGG CTG TTG GTG CTG ATG TTC TGG ATT CCT GCT S S D
TCC AGC GAT (-1 to -19, leader)

D V L M T Q T P L S L P V S L G GAT GTT TTG ATG ACC CAA ACT CCA CTC TCC CTG CCT GTC AGT CTT GGA D Q A S I S C GAT CAA GCC TCC ATC TCT TGC (1-23, Frame work 1)

R S S Q S I V H S N G N T Y L E AGA TCT AGT CAG AGC ATT GTA CAT AGT AAT GGA AAC ACC TAT TTA GAA $(24-39,\ CDR\ 1)$

W Y L Q K P G Q S P N L L I Y TGG TAC CTA CAG AAA CCA GGC CAG TCT CCA AAC CTC CTG ATC TAC (40-54, Frame work 2)

F V S N R F S TTT GTT TCC AAC CGA TTT TCT (55-61, CDR 2)

 \mathbf{R} F GGG GTC CCA GAC AGG TTC AGT GGC AGT GGA TCA GGG ACA GAT TTC ACA · **V** E D L G Y I S R E Α CTC AAG ATC AGC AGA GTG GAG GCT GAG GAT CTG GGA GTT TAT TAC TGC (62-93, Frame work 3)

F Q G S H V P W T TTT CAA GGT TCA CAT GTT CCG TGG ACG (94-102, CDR 3)

F G G G T K L E I K
TTC GGT GGA GGC ACC AAG CTG GAA ATC AAA
(103-112, Frame work 4)

R A D A A P T V S I F P P CGG GCT GAT GCA CCA ACT GTA TCC ATC TTC CCA CCA

S S K L G
TCC AGT AAG CTT GGG (Constant region)

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Figure 2

M A V L G L L F C L V T F P S C ATG GCT GTC TTG GGG CTG CTC TTC TGC CTG GTG ACA TTC CCA AGC TGT V L S GTC CTG TCC (-1 to -19, Leader)

K Ε S G P F V L P CAG GTG CAG GTG AAG GAG TCA GGA CCT TTC CTG GTG CCC CCC TCA CAG I \mathbf{T} C \mathbf{T} V S G S AGC CTG TCC ATC ACA TGC ACT GTC TCA GGG TTC TCA TTA ACC (1-30, Frame work 1)

T Y G V S ACC TAT GGT GTA AGC (31-35, CDR 1)

W I R Q P P G K G L E W L G TGG ATT CGC CAG CCT CCA GGA AAG GGT CTG GAG TGG CTG GGA (36-49, Frame work 2)

A I W G D G T T N Y H S A L I S GCA ATT TGG GGT GAC GGG ACC ACA AAT TAT CAT TCA GCT CTC ATA TCC $(50-65,\ CDR\ 2)$

Ι S K D N К 0 F \mathbf{L} AGA CTG AGC ATC AGC GAT AAC TCC AAG AGC CAA GTT TTC TTA AAA L D \mathbf{T} Α T Y Y C CTG AAC AGT CTG CAA ACT GAT GAC ACG GCC ACG TAC TAC TGT GCC AAA (66-97, Frame work 3)

L G N Y D A L D Y CTG GGT AAC TAC GAT GCT CTG GAC TAC (98-106, CDR 3)

W G Q G T S V T V S S TGG GGT CAA GGA ACC TCA GTC ACC GTC TCC TCA (107-117, Frame work 4)

A K T T P P P V Y P L V P G S L GCC AAA ACG ACA CCC CCA CCC GTC TAT CCA TTG GTC CCT GGA AGC TTG GG (Constant region)

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Figure 3(A)

| 1A7: | 1 | DVLMTQTPLSLPVSLGDQASISCRSSQSIVHSNGNTYLEWYLQKPGQSPNLLIYFVSNRF | 60 |
|------|-----|--|----|
| 1 | 1 | KK | 60 |
| 2 | 1 | KK | 60 |
| 3 | 1 | V | 60 |
| 4 | 1 | | 60 |
| 5 | 1 | | 60 |
| 6 | 1 | KK | 60 |
| 7 | 1 | KK | 60 |
| 8 | 1 | XKK | 60 |
| 9 | 5 | SFKK | 64 |
| 10 | 1 | KK | 60 |
| 11 | . 1 | KK | 60 |
| 12 | 20 | KK | 79 |
| 13 | 1 | KK | 60 |
| 14 | 1 | KK | 60 |
| 15 | 5 | SFKK | 64 |
| 1A7: | 61 | SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYYCFQGSHVPWTFGGGTKLEIK 112 | - |
| 1 | 61 | | |
| 2 | 61 | 112 | |
| 3 | 61 | 112 | |
| 4 | 61 | 111 | |
| 5 | 61 | X | |
| 6 | 61 | YY | |
| 7 . | 61 | C. 111 | |
| 8 | 61 | 111 | |
| 9 | 65 | T | |
| 10 | 61 | Y | |
| 11 | 61 | R | |
| 12 | 80 | YS 131 | |
| 13 | 61 | Y 112 | |
| 14 | 61 | T | |
| 15 | 65 | Q | |

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Figure 3(B)

| 1A7: | 1 | QVQVKESGPFLVPPSQSLSITCTVSGFSLTTYGVSWIRQPPGKGLEWLGAIWGDGTTNYH | 60 | |
|------|------------------|--|-------|------------|
| 1 | 1 | .GA | 52 | |
| 2 | 1 | LQGA | 60 | |
| 3 | 20 | LGA | 79 | |
| 4 | .1 | LTGA | 60 | |
| 5 | 1 | LGA | 60 | |
| 6 | 1 | LGA | 60 | |
| 7 | 1 | LGAPSD.VVG.SN | 60 | |
| 8 | 23 | LQGA | 82 | |
| 9 | 1 | LGA | 60 | |
| 10 | 133 | | 192 | |
| 11 | 20 | LGA | 79 | |
| 12 | 1 | LGASR.S.H.VMG.N.D.N | 60 | |
| 13 | 21 | .HLVANH.VVAG.NN | 80 | |
| 14 | 23 | LQGA | 82 | |
| 15 | 1 | LQGA | 60 | |
| 1A7: | 61 | SALISRLSISKDNSKSQVFLKLNSLQTDDTATYYCAKLGNYDALDYWGQGTSVTV | vss | 117 |
| 1 | 53 | PYDYExxxxxTL | | 100 |
| 2 | 61 | xxxxxxxx.K | | 109 120 |
| 3 | 80 | .T.KT.TMRSVSIYYYGRSDK.FT | • • • | 144 |
| 4 | 61 | K | | 119 |
| 5 | 61 | MMRxxxxxxxx, Y. M. | • • • | 120 |
| 6 | 61 | MMRxxxxx.Y.M | • | 118 |
| 7 | 61 | Mxxxxx,X,Y,M | • | 119 |
| 8 | 83 | K | | 138 |
| 9 | ²² 61 | K | | 116 |
| 10 | 193 | K | | 248 |
| 11 | 80 | K | | 135 |
| 12 | 61 | KMMRDGYYDx.M | | 117 |
| 13 | 81 | M | | 139 |
| 14 | -83 | K | | 138 |
| 15 | 61 | K | | 116 |

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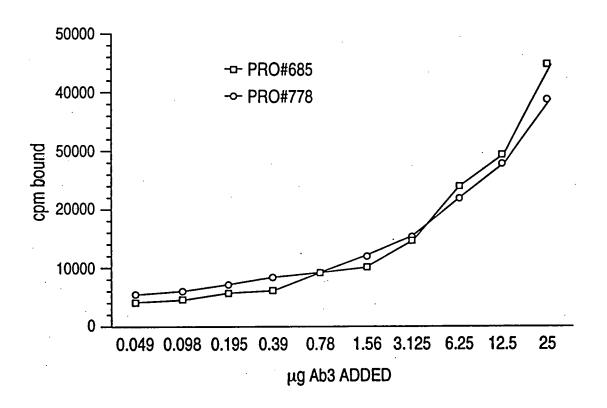
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Figure 3(C)

| | | ************************************** | |
|-----------------------|----------|---|------------|
| VL consensus: 1A7: | 1 1 | DVLMTQTPLSLPVSLGDQASISCRSSQSIVHSNGNTYLEWYLQKKGQSPKLLIYFVSNRFPN | |
| VL consensus: 1A7: | 61 61 | * ******* SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYYCFQGSHVPWTFGGGTKLEIK | 112 112 |
| | | | |
| VH consensus: | 1 | ***** QVQLKESGPGLVAPSQSLSITCTVSGFSLTSYGVHWVRQPPGKGLEWLGVIWGDGSTNYN | 60 |
| 1A7: | 1 | · | 60 |
| | | **** | |
| VH consensus: | 61 61 | SALKSRLSISKDNSKSQVFLKMNSLQTDDTARYYCARExxxxYYAMDYWGQGTSVTVSS | 119 117 |

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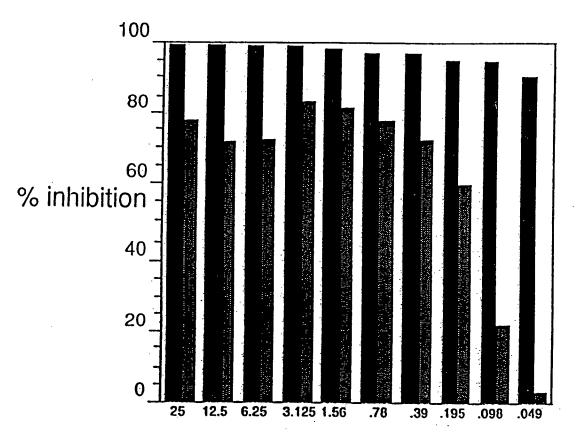


Title: MONOCLONAL ANTIBODY 1A7 AND USE FOR THE TREATMENT OF MEDIOMA AND SMALL CELL CARCINOMA Investors (s): Malaya CHATTERJEE, et al.

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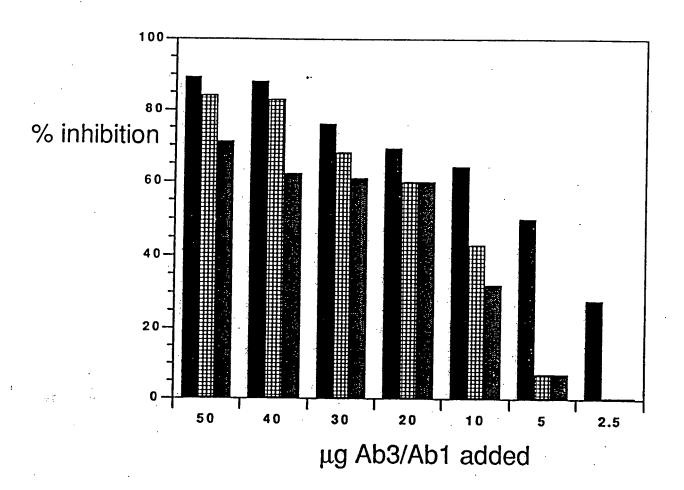
Figure 5



μg Ab3 added

or(s): Malaya CHATTERJEE, et al. Application No.: 09/293,533 Docket No.: 304142000201

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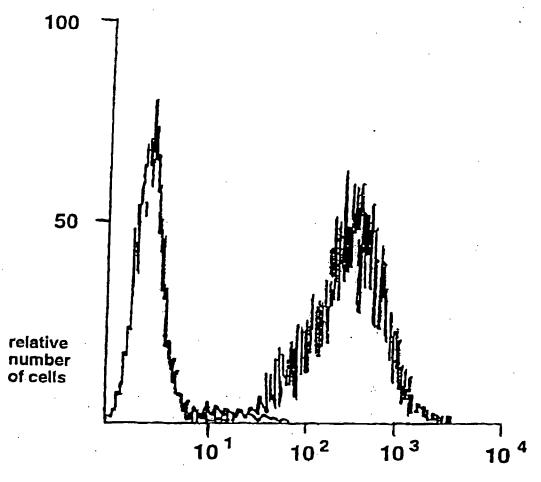


Title: MONOCLONAL ANTIBODY 1A7 AND USE FOR THE TREATMENT OF MOMA AND SMALL CELL CARCINOMA

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Figure 7(A)



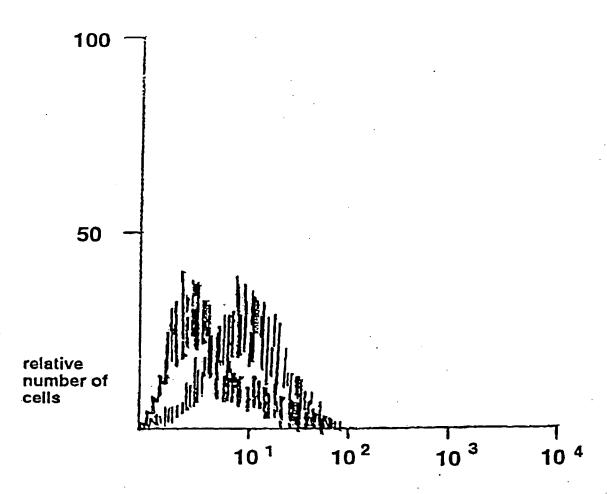
Fluorescence Intensity [log]

Title: MONOCLONAL ANTIBODY 1A7 AND USE FOR THE TREATMENT OF MELANDA AND SMALL CELL CARCINOMA

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Figure 7(B)



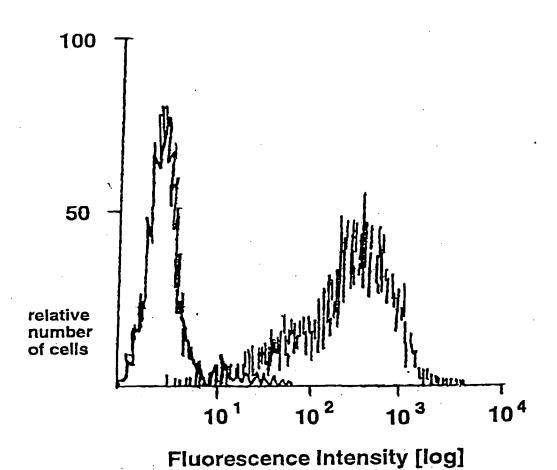
Fluorescence Intensity [log]

Title: MONOCLONAL ANTIBODY 1A7 AND USE FOR THE TREATMENT OF MEN NOMA AND SMALL CELL CARCINOMA

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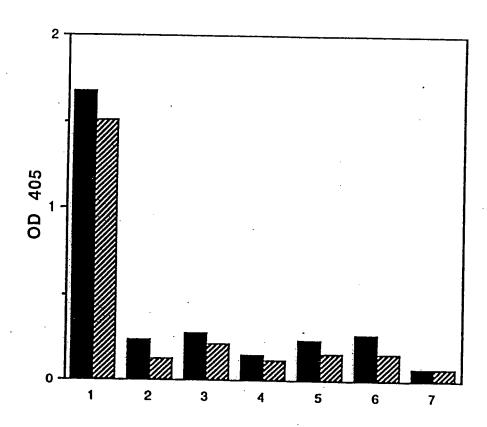
Figure 7(C)



Title: MONOCLONAL ANTIBODY 1A7 AND USE FOR THE TREATMENT OF MEL MA AND SMALL CELL CARCINOMA Invent.): Malaya CHATTERJEE, et al.
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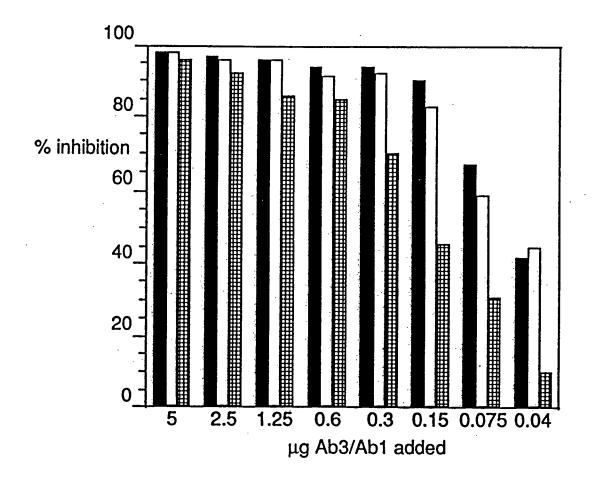
Figure 8



Title: MONOCLONAL ANTIBODY 1A7 AND USE FOR THE TREATMENT OF MELONA AND SMALL CELL CARCINOMA Inventors): Malaya CHATTERJEE, et al.
Application No.: 09/293,533
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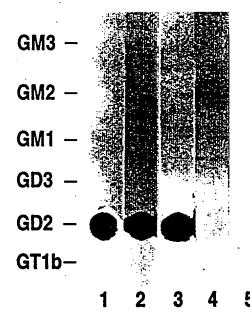
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Figure 9



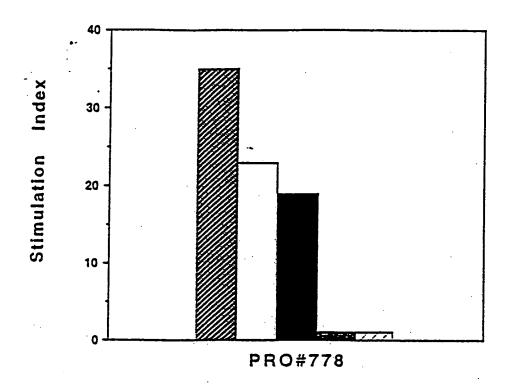
Title: MONOCLONAL ANTIBODY 1A7 AND USE FOR THE TREATMENT OF MEDIOMA AND SMALL CELL CARCINOMA Involves (s): Malaya CHATTERJEE, et al. Application No.: 09/293,533 Docket No.: 304142000201

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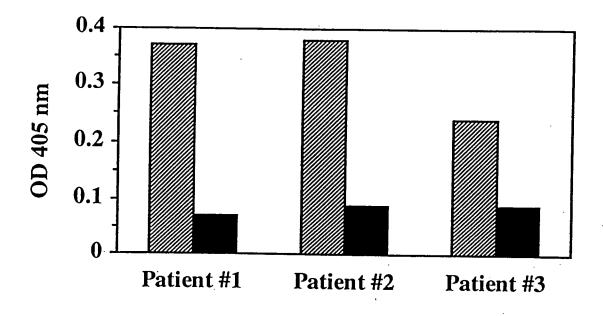


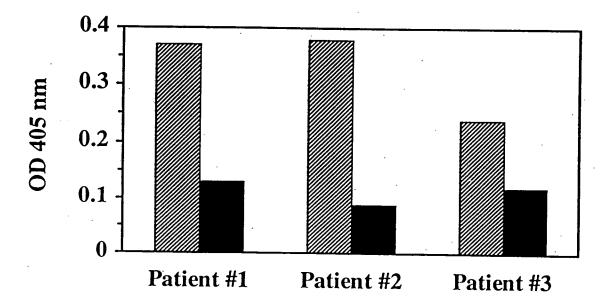
r(s): Malaya CHATTERJEE, et al.

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Figure 12



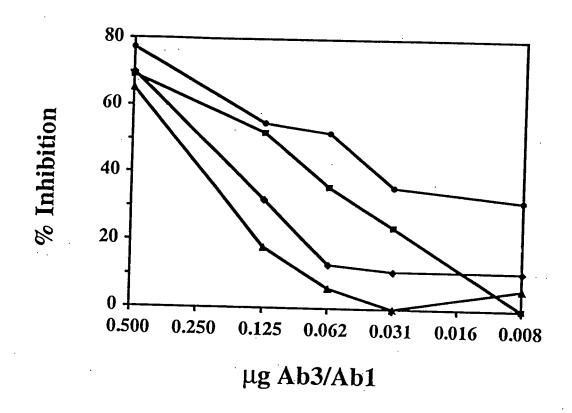


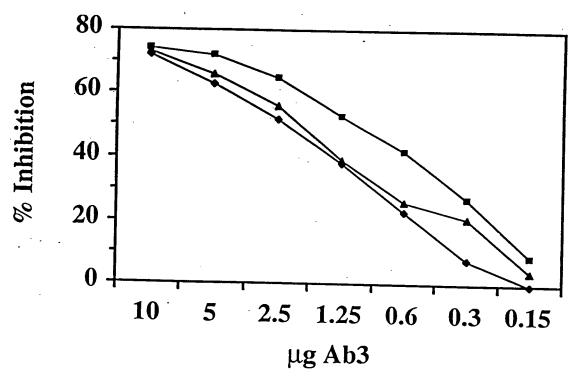
Investigation (s): Malaya CHATTERJEE, et al.

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Figure 13

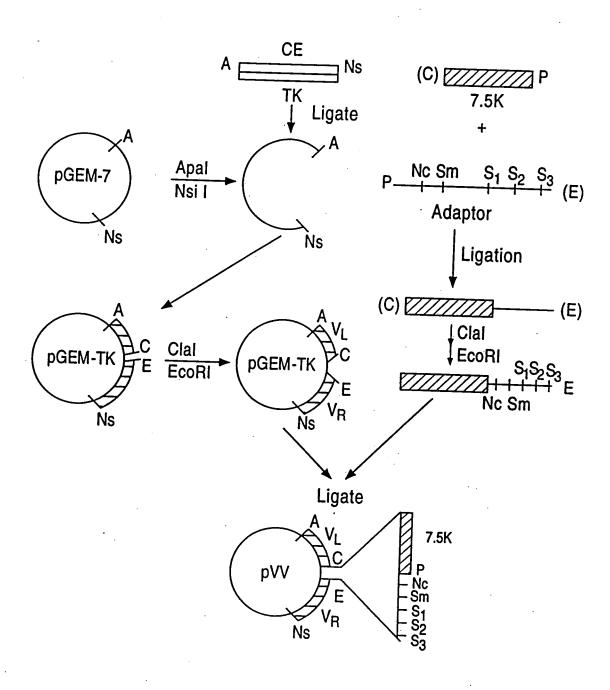




Inverse (s): Malaya CHATTERJEE, et al. Application No.: 09/293,533

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Title: MONOCLONAL ANTIBODY 1A7 AND USE FOR THE TREATMENT OF MPS NOMA AND SMALL CELL CARCINOMA

r(s): Malaya CHATTERJEE, et al.

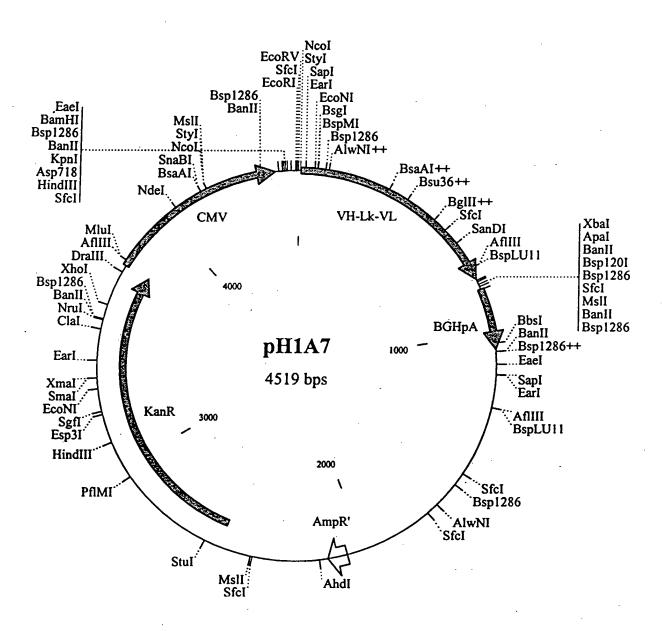
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Figure 15

| 1 | mavlgllfcl | vtfpscvlsq | vqvkesgpfl | vppsqslsit | ctvsgfsltt |
|-----|------------|------------|----------------|------------|------------|
| 51 | ygvswirqpp | gkglewlgai | wgdgttnyhs | alisrlsisk | dnsksqvflk |
| 101 | Inslqtddta | tyycaklgny | daldywgqgt | svtvssgggg | sggggsggg |
| 151 | sdvlmtqtpl | slpvslgdqa | siscrssqsi | vhsngntyle | wylqkpgqsp |
| 201 | nlliyfvsnr | fsgvpdrfsg | sgsgtdftlk | isrveaedlg | vyycfqgshv |
| 251 | pwtfgggtkl | eik | - - | • | 10 |

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Figure 17(A)

>gb|L22327|HUSIGKAVAA House rearranged immunoglobulin kappa-chain mRNA V-J

- 1 GATGTTTTGATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAGCCTCC 60
- 61 ATCTCTTGCAGATCTAGTCAGAGCATTGTACATAGTAATGGAAACACCTATTTAGAATGG 120
- 121 TACCTGCAGAAACCAGGCCAGTCTCCAAAGCTCCTGATCTACAAAGTTTCCAACCGATTT 180
- 181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240
- 241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTACTGCTTTCAAGGTTCACATGTTCCG 300
- 301 TGGACGTTCGGTGGAGGCACCAAGCTGGAAATCAAA 336

>gb|L18941|MUSIG4388 Mouse rearranged immunoglobulin light chain Ab438 mRNA V-J

- 1 GATGTTTTGATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAGCCTCC 60
- 61 ATCTCTTGCAGATCTAGTCAGAGCATTGTACATAGTAATGGAAACACCTATTTAGAATGG 120
- 121 TACCTGCAGAAACCAGGCCAGTCTCCAAAGCTCCTGATCTACAAAGTTTCCAACCGATTT 180
- 181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240
- 241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTACTGCTTTCAAGGTTCACATGTTCCG 300
- 301 TGGACGTTCGGTGGAGGCACCAAGCTGGAAATCAAA 336

>gb|M34588|MUSIGKABR Mouse Ig kappa-chain mRNA V-J region, partial cds.

- 1 GATGTTTTGATGACCCAAACTCCACTCTCCCTNCCTGTCAGTCTTGGAGATCAAGCCTCC 60
- 61 ATCTCTTGCAGATCTAGTCAGAGCATTGTACATAGTAATGGAAACACCTATTTAGAATGG 120
- 121 TACCTGCAGAAACCAGGCCAGTCTCCAAAGCTCCTHATCTACAAAGTTTCCAACCGATTT 180
- 181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240
- 241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTACTGCTTTCAAGGTTCACATGTTCCG 300
- 301 TGGACGTTCGGTGGAGGCACCAAGCTGGAAATCAAA 336

>gb[M32857[MUSIGKCSP Mouse 1g rearranged kappa-chain mRNA V-region, partial

- 1 GATGTTTTGATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAGCCTCC 60
- 61 ATCTCTTGCAGATCTAGTCAGAGCATTGTACATAGTAATGGAAACACCTATTTAGAATGG 120
- 121 TACCTGCAGAAACCAGGCCAGTCTCCAAAGCTCCTGATCTACAAAGTTTCCAACCGATTT 180
- 181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240
- 241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTACTGCTTTCAAGGTTCACATGTTCCG 300
- 301 TGGACGTTCGGTGGAGGCACCAAGCTGGAAATC 333

>gb|M83723|MUSIGKD2A Mouse monoclonal antiidiotypic antibody Ig kappa light

- 1 GATGTTTTGATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAGCCTCC 60
- 61 ATCTCTTGCAGATCTAGTCAGAGCATTGTACATAGTAATGGAAACACCTATTTAGAATGG 120
- 121 TACCTGCAGAAACCAGGCCAGTCTCCAAAGCTCCTGATCTACAAAGTTTCCAACCGATTT 180
- 181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240
- 241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTACTGCTTTCAAGGTTCACATGTTCCT 300
- 301 CGGACGTTCGGTGGAGGCACCAAGCTGGAAATCAAA 336

>emb|Z22035|MDIGKVAH M.domesticus IgK variable region.

- 1 GATGTTGTGATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAGCCTCC 60
- 61 ATCTCTTGCAGATCTAGTCAGAGCATTGTACATAGTAATGGAAACACCTATTTAGAATGG 120
- 121 TACCTGCAGAAGCCAGGCCAGTCTCCAAAGCTCCTGATCTACAAAGTTTCCAACCGATTT 180
- 181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240
- 241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTACTGCTTTCAAGGTTCACATGTTCCG 300
- 301 TGGACGTTCGGTGGAGGCACCAAGCTGGAAATCAAA 336

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Figure 17(B)

>gb|M34589|MUSIGKABS Mouse Ig kappa-chain mRNA V-J region, partial cds.

- 1 GATGTTTTGATGACHCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAGCCTCC 60
- 61 ATCTCTTGCAGATCTAGTCAGAGCATTGTACATAGTAATGGAAACACCTATTTAGAATGG 120
- 121 TACCTGCAGAAACCAGGCCAGTCTCCAAAGCTCCTHATCTACAAAGTTTCCAACCGATTT 180
- 181 TCTGGGGTCCCAGAHAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240
- 241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTACTGCTTTCAAGGTTCACATGTTCCG 300
- 301 TGGACGTTCGGTGGAGGCACCAAGCTGGAAATCAAA 336

>gb[M32858]MUSIGKCSQ Mouse Ig rearranged kappa-chain mRNA V-region, partial

- 1 GATGTTTTGATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAGCCTCC 60
- 61 ATCTCTTGCAGATCTAGTCAGAGCATTGTACATAGTAATGGAAACACCTATTTAGAATGG 120
- 121 TACCTGCAGAAACCAGGCCHGTCTCCAAAGCTCCTGATCTACAAAGTTTCCAACCGATTT 180
- 181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240
- 241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTACTGCTTTCAAGGTTCACATGTTCCG 300
- 301 TGGACGTTCGGTGGAGGCACCAAGCTGGAAATC 333

>emb|X87231|MMKAPLI M.musculus mRNA for antibody light chain

- 89 GATGTTTTAATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAGCCTCC 148
- 149 ATCTCTTGCAGATCTAGTCAGAGCATTGTACATAGTAATGGAAACACCTATTTAGAATGG 208
- 209 TACCTGCAGAAACCAGGCCAGTCTCCAAAGCTCCTGATCTACAAAGTTTCCAACCGATTT 268
- 269 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 328
- 329 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTACTGCTTTCAAGGTTCACATGTTCCG 388
- 389 TGGACGTTCGGTGGAGGCACCAAGCTGGAAATCAAA 424

>gb|U29428|HMU29428 Mus musculus anti-PC rearranged Ig kappa chain V-J region

- 13 GATGTTTTGATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAGCCTCC 72
- 73 ATCTCTTGCAGATCTAGTCAGAGCATTGTACATAGTAGTGGAAACACCTTTTTAGAATGG 132
- 133 TACCTGCAGAAACCAGGCCAGTCTCCAAAGCTCCTGATCTACAAAGTTTCCAACCGATTT 192
- 193 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 252
- 253 AGCAGGGTGGAGGCTGAGGATCTGGGAGTTTATTACTGCTTTCAAGGTACACATGTTCCG 312
- 313 TGGACGTTCGGTGGAGGCACCAAGCTGGAAATCAAA 348

Figure 18(A)

>gb[U01185]HHU01185 Mus musculus BALB/c anti-glycophorin A type N

- 1 CAGGTGCAGCTGCAGGAGTCAGGACCTGGCCTGGTGGCGCCCTCACAGAGCCTGTCCATC 60
- 61 ACATGCACTGTCTCAGGGTTCTCATTAACCAGCTATGGTATAACCTGGGTTCGCCAGCCT 120
- 121 CCAGGAAAGGGTCTGGAGTGGCTGGGAGTAATATGGGGTGACGGAAACACAAATTATCAT 180
- 181 TCAGCTCTCATATCCAGACTGAGCATCAGCAAGGATAACTCCAAGAGCCAAGTTTTCTTA 240
- 241 AAACTGAACAGTCTGCAAACTGATGACACAGCCACGTACTACTGTGCCAAA 291
- 292 ----- 315
- 316 GCTAAGGACTACTGGGGTCAAGGAACCTCAGTCACCGTCTCCTCA 360

>gb[M26985[MUSIGH1PR Mus musculus productively rearranged IgH chain allele 1,

- 1 CAGGTGCAGCTGAAGGAGCAGGACCTGGCCTGGCGGGGCCCTCACAGAGCCTGTCCATC 60
- 61 ACATGCACCGTCTCAGGGTTCTCATTAACCAGCTATGGTGTACACTGGGTTCGCCAGCCT 120
- 121 CCAGGAAAGGGTCTGGAGTGGCTGGTAGTGATATGGAGTGATGGAAGCACAAACTATAAT 180
- 181 TCAGCTCTCAAATCCAGACTGAGCATCAGCAAGGACAACTCCAAGAGCCAAGTTTTCTTA 240
- 241 AAAATGAACAGTCTCCAAACTGATGACACAGCCATGTACTACTGTGCCAGAC 292
- 293 ----- 300
- 301 GGTGACTACTATGCTATGGACTACTGGGGTCAAGGAACCTCAGTCACCGTCTCCTCA 357

>dbj|D17387|PVYIB Potato virus Y immunoglobulin gene for monoclonal antibody

- 58 CAGGTGCAGCTGAAGGAGTCAGGACCTGGCCTGGTGGCGCCCTCACAGAGCCTGTCCATC 117
- 118 ACATGCACTGTCTCAGGGTTCTCATTAACCAGCTATGGTGTAAGCTGGGTTCGCCAGCCT 177
- 178 CCAGGAAAGGGTCTGGAGTGGCTGGGAGTAATATGGGGTGACGGGAGCACAAATTATCAT 237
- 238 TCAGCTCTCATATCCAGACTGAGCATCAGCAAGGATAACTCCAAGAGCCAAGTTTTCTTA 297
- 298 AAACTGAACAGTCTGCAAACTGATGACACAGCCACGTACTACTGTGCCAAGCATCTTGAC 357
- 358 TAC 360
- 361 TGGGGCCAAGGCACCACTCTCACAGTCTCCTCA 393

>gb|M36228|MUSIGHAEI Mouse Ig heavy-chain mRNA V region, partial cds from

- 1 CAGGTGCAGCTGAAGGAGTCAGGACCTGGCCTGGTGGCGCCCTCACAGAGCCTGTCCATC 60
- 61 ACTTGCACTGTCTCTGGGTTTTCATTAACCAGCTATGGTGTACACTGGGTTCGCCAGCCT 120
- 121 CCAGGAAAGGGTCTGGAGTGGCTGGGAGTAATATGGGCTGGTGGAAGCACAAATTATAAT 180
- 121 CONGRANGUET CUINATURE CUINATURE CUINTING CONTROL C
- 181 TCGGCTCTCATGTCCAGACTGAGCATCAGCAAAGACACTCCAAGAGCCAAGTTTTCTTA 240
- 241 AAAATGAACAGTCTGCAAACTGATGACACAGCCATGTACTACTGTGCCAGAGGGCATTAC 300
- 301 TACG 304
- 305 305
- 306 CTACTATGCTATGGACTACTGGGGTCAAGGAACCTCAGTCACCGTCTCC 354

>gb[L48671|MUSAB Mus musculus (cell line C3H/F2-22) chromosome 12 anti-DNA

- 1 CAGGTGCAGCTCAAGGAGTCAGGACCTGTCCTCGTGGCGCCCTCACAGAGCCTGTCCATC 60
- 61 ACTTGCACTGTCTCTGGGTTTTCATTAACCAGCTATGGTGTACACTGGGTTCGCCAGCCT 120
- 121 CCAGGCAAGGGTCTGGAGTGGCTGGGAGTAATATGGGCTGGTGGAAGCACAAATTATAAT 180
- 181 TCAGCTCTCATGTCCAGACTGAGCATCAGCAAAGACAACTCCAAGAGCCAAGTTTTCTTA 240
- 241 AAAATGAACAGTCTGCAAACTGATGACACAGCCATGTACTACTGTGCCAAAC 292
- 293 ----- 304
- 305 ACAATGCTATGGACTACTGGGGTCAAGGAACCTCAGTCACNGTCTCCTCA 354

s): Malaya CHATTERJEE, et al.

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Figure 18(B)

>emb[X75099[MMASWS1H H.musculus (A.SW) mRNA for ASWS1 antibody heavy chain

- 1 CAGGTHCAGCTGAAGGAGTCAGGACCTGGCCTGGTGGCACCCTCACAGAGCCTGTCCATC 60
- 61 ACATGCACTGTCTCTGGGTTCTCATTATCCAGATATAGTGTACACTGGGTTCGCCAGCCT 120
- 121 CCAGGAAAGGGTCTTGAGTGGCTGGGAATGATATGGGGTGGTGGAAACACAGACTATAAT 180
- T81 TCAGCTCTCAAATCCAGACTGAGCATCAGCAAGGACAACTCCAAGAGCCAAGTTTTCTTA 240
- 241 AAAATGAACAGTCTGCAAACTGATGACACAGCCATGTACTACTGTGCCAGAGATGGTTAC 300
- 361 TACGACTATGCTATGGACTACTGGGGTCAAGGAACCTCAGTCACCGTCTCC 351

>gb[M36217[MUSIGHADX House Ig heavy-chain mRNA V region, partial cds.

- 1 CAGGTGCAGCTGAAGGAGTCAGGACCTGGCCTGGTGGCGCCCTCACAGAGCCTGTCCATC 60
- 61 ACTTGCACTGTCTCTGGGTTTTCATTAACCAGCTATGGTGTACACTGGGTTCGCCAGCCT 120
- 121 CCAGGAAAGGGTCTGGAGTGGCTGGGAGTAATATGGGCTGGTGGAAGCACAAATTATAAT 180
- 181 TCGGCTCTCATGTCCAGACTGAGCATCAGCAAAGACAACTCCAAGAGCCAAGTTTTCTTA 240
- 241 AAAATGAACAGTCTGCAAACTGATGACACAGCCATGTACTACTGTGCCAGA 291
- 292 ----- 312
- 313 TACTATGCTATGGACTACTGGGGTCAAGGAACCTCAGTCACCGTCTCC 360

>gb|J04609|MUSIGMAF Mus musculus IgM chain (anti-fluorescein antibody 18-2-3)

- 67 CACGTGCACCTGAAGGAGTCAGGACCTGTCCTGGTGGCGCCCTCACAGAGCCTGTCCATC 126
- 127 ACTTGCACTGTCTCTGGGTTTTCATTAACCAACTATGGTGTACACTGGGTTCGCCAGCCT 186
- 187 CCAGGAAAGGGTCTGGAGTGGCTGGGAGTAATATGGGCTGGTGGAAACACAAATTATAAT 246
- 247 TCAGCTCTCATGTCCAGACTGAGCATCAGCAAAGACAATTCCAAGAGCCAAGTTTTCTTA 306
- 307 AAAATGAACAGTCTGCAAATTGATGACACAGCCATATACTACTGTGCCAAAC 358 359 ----- 375
- 376 TACTATGCTATGGACTATTGGGGTCAAGGAACCTCAGTCACCGTCTCCTCA 426

>gb[M34626[MUSIGHACK Mouse Ig rearranged heavy chain (NC19-F8) mRNA VH-DH-JH4

- 1 CAGGTGCAGCTGAAGGAGTCAGGACCTGGCCTGGTGGCGCCCTCACAGAGCCTGTCCATC 60
- 61 ACTTGCACTGTCTCTGGGTTTCCATTAACCAGCTATGGTGTAGACTGGGTTCGCCAGCCT 120
- 121 CCAGGAAAGGGTCTGGAGTGGCTGGGAGTAATATGGGGTGGTGGAAGCACHAATTATAAT 180
- 181 TCAGCTCTCATGTCCAGACTGAGCATCAGCAAAGACAACTCCAAGAGCCAAGTTTTCTTA 240
- 241 AAAATGAACAGTCTGCHAACTGATGACACAGCCATGTACTACTGTGCC 288
- 289 ----- 299
- 300 ACGGGGNNTTTACTATGCTATGGACTACTGGGGTCAAGGAACCTCAGTCACCGTCTC 356

>gb[L31403|MUSIGHCVX Mouse immunoglobulin heavy chain variable region (Igh-V)

- 58 CAGGTGCACCTGAAGGAGTCAGGACCTGGCCTGGTGGCGCCCTCACAGAGCCTGTCCATC 117
- 118 ACTTGCACTGTCTCTGGATTTTCATTAACCACCTATGGTGTACACTGGTTTCGCCAGCCT 177
- 178 CCAGGAAAGGGTCTGGAGTGGCTGGGACTAATATGGGCTGGTGGAAACACAGATTATAAT 237
- 238 TCGGCTCTCATGTCCAGACTGAGCATCAACAAGACAACTCCAAGAGCCAAGTTTTCTTA 297
- 298 AAAATGAACAGTCTGCAAGCTGATGACACAGCCATGTACTACTGTGCCAGATT 350
- 351 ----- 367
- 368 ACGACTATGCTGTGGACTACTGGGGTCAAGGAACCTCAGTCACCGTCTCCTCA 420